NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/W5-KK-CB2A **Date: 05-03-2021**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements of roads and drains at Kattigenahalli to Kogilu Main and Cross Road in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s. R.M. Enterprises, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M20

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	05-02-21	05-03-21	28	22500	500	22.22	**22.37**
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	495	22.00	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Babanagara, 2nd Cross Road, LHS From 1st Main Rd

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NEWZEN CONS Bangalore

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/W5-KK-CB3A **Date: 09-03-2021**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements of roads and drains at Kattigenahalli to Kogilu Main and Cross Road in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s. R.M. Enterprises, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M20

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	09-02-21	09-03-21	28	22500	505	22.44	**22.15**
	002	‘’	“	‘’	“	490	21.78	
	003	‘’	“	‘’	“	500	22.22	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Vinayakanagara, Om shakthi temple road, RHS From Main Rd

2025

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/W5-KK-CB4A

Date: 12-03-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements of roads and drains at Kattigenahalli to Kogilu Main and Cross Road in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s. R.M. Enterprises, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M20

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-02-21	12-03-21	28	22500	495	22.00	**22.30**
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	510	22.67	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Shivapura, 1st Main Road, RHS From Main Rd

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/W5-KK-CB5A **Date: 15-03-2021**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements of roads and drains at Kattigenahalli to Kogilu Main and Cross Road in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s. R.M. Enterprises, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M20

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-02-21	15-03-21	28	22500	500	22.22	**22.44**
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Shiva Temple Road, LHS From Main Rd

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/W5-KK-CB6A

Date: 19-03-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements of roads and drains at Kattigenahalli to Kogilu Main and Cross Road in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s. R.M. Enterprises, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M20

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-02-21	19-03-21	28	22500	505	22.44	**22.81**
	002	"	"	"	"	520	23.11	
	003	"	"	"	"	515	22.89	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Shiva Temple Road, RHS From End

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/W5-KK-CB7A

Date: 23-03-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements of roads and drains at Kattigenahalli to Kogilu Main and Cross Road in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s. R.M. Enterprises, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M20

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-02-21	23-03-21	28	22500	515	22.89	22.59
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	510	22.67	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Manjunatha Layout, Main Road, LHS From Main Road

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/W5-KK-CB8A

Date: 26-03-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements of roads and drains at Kattigenahalli to Kogilu Main and Cross Road in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s. R.M. Enterprises, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M20

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-02-21	26-03-21	28	22500	500	22.22	**22.00**
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	490	21.78	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Manjunatha Layout, Cross Road, LHS

Page No. 1/1,

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/W5-KK-GSB1 **Date: 02-06-2021**

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: Improvements of roads and drains at Kattigenahalli to Kogilu Main and Cross Road in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s. R.M. Enterprises, Bangalore.

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	**100.00**	100
53.00	**94.65**	80-100
26.50	**82.35**	55-90
9.50	**56.15**	35-65
4.75	**43.80**	25-50
2.36	**17.25**	10-20
0.85	**6.90**	2-10
0.425	**4.15**	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Vinayakanagara, 5th Main Road

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Date: 02-06-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	0.41 %	Not more than 2.0 %
2.	Liquid Limit, %	18.56	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.76	----------
5.	Aggregate Impact Value, %	28.86	Not more than 40.00 %

Asst. Executive Engineer
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BBMP, Bangalore - 92

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/W5-KK-GSB2 **Date: 05-06-2021**

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: Improvements of roads and drains at Kattigenahalli to Kogilu Main and Cross Road in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s. R.M. Enterprises, Bangalore.

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	**100.00**	100
53.00	**97.45**	80-100
26.50	**82.30**	55-90
9.50	**56.25**	35-65
4.75	**43.80**	25-50
2.36	**17.35**	10-20
0.85	**8.65**	2-10
0.425	**3.90**	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Vinayakanagara, 6th Main Road

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Date: 05-06-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.42 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.63**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.81**	----------
5.	Aggregate Impact Value, %	**28.09**	Not more than 40.00 %

Asst. Executive Engineer
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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/W5-KK-GSB3 **Date: 09-06-2021**

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: Improvements of roads and drains at Kattigenahalli to Kogilu Main and Cross Road in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s. R.M. Enterprises, Bangalore.

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	**100.00**	100
53.00	**95.45**	80-100
26.50	**80.15**	55-90
9.50	**56.80**	35-65
4.75	**44.10**	25-50
2.36	**16.70**	10-20
0.85	**8.25**	2-10
0.425	**3.40**	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Vinayakanagara, 6th B Main Road

NEWZEN CONSULTANT Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone

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Date: 09-06-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.43 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.46**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.74**	----------
5.	Aggregate Impact Value, %	**28.35**	Not more than 40.00 %

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NC/QC/YPD/2020-21/W5-KK-GSB4

Date: 14-06-2021

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: Improvements of roads and drains at Kattigenahalli to Kogilu Main and Cross Road in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s. R.M. Enterprises, Bangalore.

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	98.45	80-100
26.50	78.55	55-90
9.50	60.20	35-65
4.75	45.75	25-50
2.36	18.15	10-20
0.85	7.90	2-10
0.425	3.60	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Babanagara, 1st Main 1st Cross Road, From 1st Main Rd

Asst. Executive Engineer
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Date: 14-06-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	0.41%	Not more than 2.0 %
2.	Liquid Limit, %	18.93	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.76	----------
5.	Aggregate Impact Value, %	28.54	Not more than 40.00 %

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/W5-KK-W1

Date: 24-06-2021

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements of roads and drains at Kattigenahalli to Kogilu Main and Cross Road in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s. R.M. Enterprises, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**96.15**	95-100
26.50	**---**	-
22.40	**71.25**	60-80
11.20	**53.40**	40-60
4.75	**32.15**	25-40
2.36	**25.60**	15-30
0.600	**18.35**	8-22
0.075	**3.85**	0-5

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Vinayakanagara, 5th Main Road

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Date: 24-06-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.89%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.31%	Not more than 35.0 %
3.	Water absorption, %	0.42 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NEWZEN CONSULTANT Bangalore

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/W5-KK-W2 Date: 28-06-2021

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements of roads and drains at Kattigenahalli to Kogilu Main and Cross Road in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s. R.M. Enterprises, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.35**	95-100
26.50	**---**	-
22.40	**76.15**	60-80
11.20	**51.10**	40-60
4.75	**37.45**	25-40
2.36	**24.70**	15-30
0.600	**19.05**	8-22
0.075	**3.65**	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Vinayakanagara, 6th Main Road

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Asst. Executive Engineer
Project Division
Yelahanka Zone
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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/W5-KK-W3 Date: 01-07-2021

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements of roads and drains at Kattigenahalli to Kogilu Main and Cross Road in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
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TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.40**	95-100
26.50	**---**	-
22.40	**74.15**	60-80
11.20	**56.25**	40-60
4.75	**34.65**	25-40
2.36	**22.95**	15-30
0.600	**17.30**	8-22
0.075	**4.15**	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Vinayakanagara, 6th B Main Road

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Date: 01-07-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.64%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.35 %**	Not more than 35.0 %
3.	Water absorption, %	**0.42%**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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